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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/814,714	03/31/2004	Heinz H. Busta	100067	9863	
29050 STEVEN WE	7590 03/25/200 SEMAN	EXAM	EXAMINER		
ASSOCIATE GENERAL COUNSEL, LP. CABOT MICROELECTRONICS CORPORATION 870 NORTH COMMONS DRIVE			VIJAYAKUMAR, I	VIJAYAKUMAR, KALLAMBELLA M	
			ART UNIT	PAPER NUMBER	
AURORA, IL		1793			
			MAIL DATE	DELIVERY MODE	
			03/25/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)				
10/814,714	BUSTA ET AL.				
Examiner	Art Unit				
KALLAMBELLA VIJAYAKUMAR	1793				

	KALLAMBELLA VIJAYAKUMAR	1793						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
THE REPLY FILED 05 March 2008 FAILS TO PLACE THIS AP	PLICATION IN CONDITION FOR	ALLOWANCE.						
The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods: a) ☐ The period for reply expires months from the mailing date of the final rejection.								
no event, however, will the statutory period for reply expire to	dvisory Action, or (2) the date set forth in the final rejection, whichever is later. In ster than SIX MONTHS from the mailing date of the final rejection.							
Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).							
Extensions of time may be obtained under 37 CFR 1.136(a). The date have been field is the date for purposes of determining the period of ext under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patient term adjustment. See 37 CFR 1.704(b). NOTICE OF APPEAL	tension and the corresponding amount of shortened statutory period for reply origing than three months after the mailing date	of the fee. The appropri- nally set in the final Office	ate extension fee be action; or (2) as					
2. The Notice of Appeal was filed on A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(a)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).								
<u>AMENDMENTS</u>								
 ∑ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because (a) ∑ They raise new issues that would require further consideration and/or search (see NOTE below); (b) ☐ They raise the issue of new matter (see NOTE below); 								
(c) They are not deemed to place the application in bet appeal; and/or		lucing or simplifying t	he issues for					
(d) They present additional claims without canceling a	corresponding number of finally reje	cted claims.						
NOTE: See Continuation Sheet. (See 37 CFR 1.1	16 and 41.33(a)).							
4. The amendments are not in compliance with 37 CFR 1.12	The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).							
5. Applicant's reply has overcome the following rejection(s):	:							
 Newly proposed or amended claim(s) would be all non-allowable claim(s). 	lowable if submitted in a separate, t	imely filed amendmer	nt canceling the					
7. For purposes of appeal, the proposed amendment(s): a) I how the new or amended claims would be rejected is prov. The status of the claim(s) is (or will be) as follows:		be entered and an e	xplanation of					
Claim(s) allowed: none.								
Claim(s) objected to: 22.								
Claim(s) rejected: 1.4. 6. 7. 8. 12-16. 18. 21-22 and 25-28 Claim(s) withdrawn from consideration: 29-35. AFFIDAVIT OR OTHER EVIDENCE	<u>.</u>							
8. The affidavit or other evidence filed after a final action, bu	t before or on the date of filing a No	tice of Anneal will no	he entered					
because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).	d sufficient reasons why the affidavi	t or other evidence is	necessary and					
 The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary 	overcome <u>all</u> rejections under appear y and was not earlier presented. Se	l and/or appellant fail e 37 CFR 41.33(d)(1	s to provide a).					
10. The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after er	try is below or attach	ed.					
The request for reconsideration has been considered bu See Continuation Sheet.	t does NOT place the application in	condition for allowan	ce because:					
12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s).								
13. Other:								
/Stanley Silverman/ Supervisory Patent Examiner, Art Unit 1793								

U.S. Patent and Trademark Office PTOL-303 (Rev. 08-06) Continuation of 3. NOTE: The new limitation of claim-18 as amended was not part of the originally prosecuted claims, needs further search and for further consideration.

Continuation of 11, does NOT place the application in condition for allowance because: Applicants arguments filed 03/05/2008 have been fully considered, but they are not persuasive for the following reasons:

With regard to the argument that Tuck et al (WO 02/03413) does not teach the addition of silica with carbon black, teaches fumed silica with graphite, and graphite with carbon black while no rational underpinning the support the conclusion of obviousness is not persuasive (Res. Pg-7, Last line - Pg-8, Para-1), because Tuck teaches an ink composition containing conductive particles (II), insulative/resistive particles (I) and a fluid media, wherein a first minor component of electrically insulating material, either on its own or provided within a precursor therefor; and a second minor component of electrically conductive particles (Abstract). Tuck further teaches carbon black as second particle (0039, i.e. conductive particle as argued in the last office action and implied rationale for obviousness) and fumed silica/laponite (0040) as insulators. The prior art further teaches using plurality of first particles and plurality of second particles (0033). Tuck further teaches CHTR ink which is another emobiment of the Tuck's ink that contains the components of emitter coatings (0039, 0049, 0149-0152) and fumed silica/laponite as a rheology modifier, and it is printable by ink-jet or screen printing (0049, 0086-87). Further, the working examples comprise conductive graphite and insulating silica, whereby it would have been to obvious to combine conductive carbon black particles with silica thus forming an ink with predictable results because prior art teaches the carbon black as conductive particles, and "[I]n considering the disclosure of a reference, it is proper to take into account not only specific teachings of the reference but also the inferences which one skilled in the art would reasonably be expected to draw therefrom." In re Preda, 401 F.2d 825, 826, 159 USPQ 342, 344 (CCPA 1968). With regard to viscosity, the prior art teaches controlling the rheology of the ink (0064) and printing by various techniques including ink-jet printing (0022, 0086, 0087) wherein it would have been obvious to a person of ordinary skilled in the art to optimize the viscosity as a choice of design of composition and printing process that is well known in the art at the time of the disclosure of the invention by the applicants (Ma et al, US 2005/0224764, P- 0007, 0051). The inkjet inks containing conductive carbon black have a viscosity of 1-15 cps (Ma et al).

The same rationale applies to arguments over Tuck in view of Blanchet (US 5,948,465) (Res, Pg.8, Pars-3). Blanchet further teaches graphite, carbon black and carbon soot preferred carbon electron emitting materials (Blanchet, Cl-2, Ln 32-36), and one of ordinary skilled in the art would have substituted carbon black of Tuck with carbon soot of Blanchant as functional equivalents with predictable results.

With regard to the limitation of "adding additional carbon black if the formulation does not have desired vertical resistance" in amended claim-18 is not taught by the prior art, that needs further search and for further consideration (Res. Pg-8, Ln 6-8).

With regard to the argument that Ma teaches (US 2005/0224764), cathon-fibril links, that teaches a way from carbon black (Res. Pg-10, Pera-2), Ma clearly teaches the positive addition of carbon black and graphite in to carbon-fibril-based inks (P-011) and 0163). In response to applicant's argument that Tuck is nonanalogous art, it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably perinent to the particular problem with which the applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See In re Oetiker, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, Tuck teaches rheology modified ink containing carbon/graphile/carbon-nahoutle (P-0031, 0262) printable by 16, 1602, 1602, 1602, 1603, 160

Cancelling of claim-22 will overcome the objections to claim-22, wherein "a non-photoresist" can be any polymer that is broader than the recited polymers in claim-18.

For the reasons set forth above, applicants fail to patentably distinguish their composition and process over the prior art.

/KMV/

March 19, 2008.